

February 26th 2008, A. Pany

“Best solutions” for st16uni_..._230X_1_5 schedules

Specifications:

schedules: st16uni_60_12_230X_1_5
st16uni_45_9_230X_1_5
st16uni_30_6_230X_1_5
st16uni_15_3_230X_1_5

software: PPP KF

zwd: Vienna turbulence (standard)

clk: random walk + integrated random walk, ASD 1e-14 @ 50 min

wn: 4/sqrt(2) ps per station

zwd: random walk, 0.7 ps²/s

SH: SH11, random walk, 0.01 ps²/s

clk: deterministic rate + random walk offset, var. rate for offset: 1 ps²/s

elevation dependent downweighting as proposed by J. Gipson:

$$\text{sig}^2 = \text{obs_sig}^2 + (10\text{ps}/\sin(\text{el}))^2$$

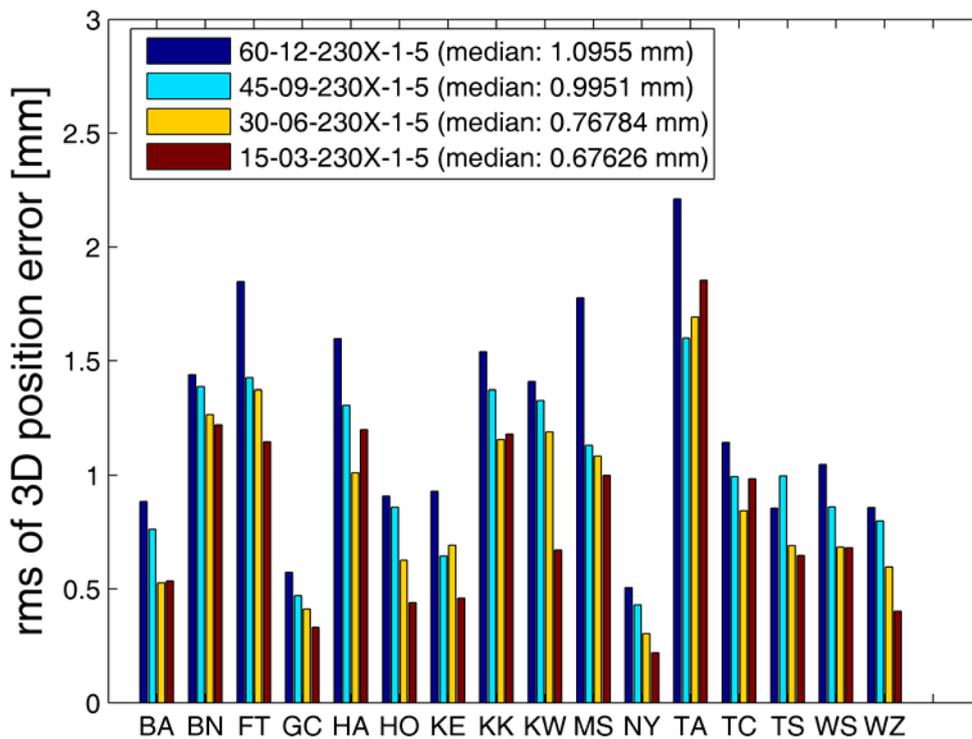


Figure 1 rms of 3D position error in mm

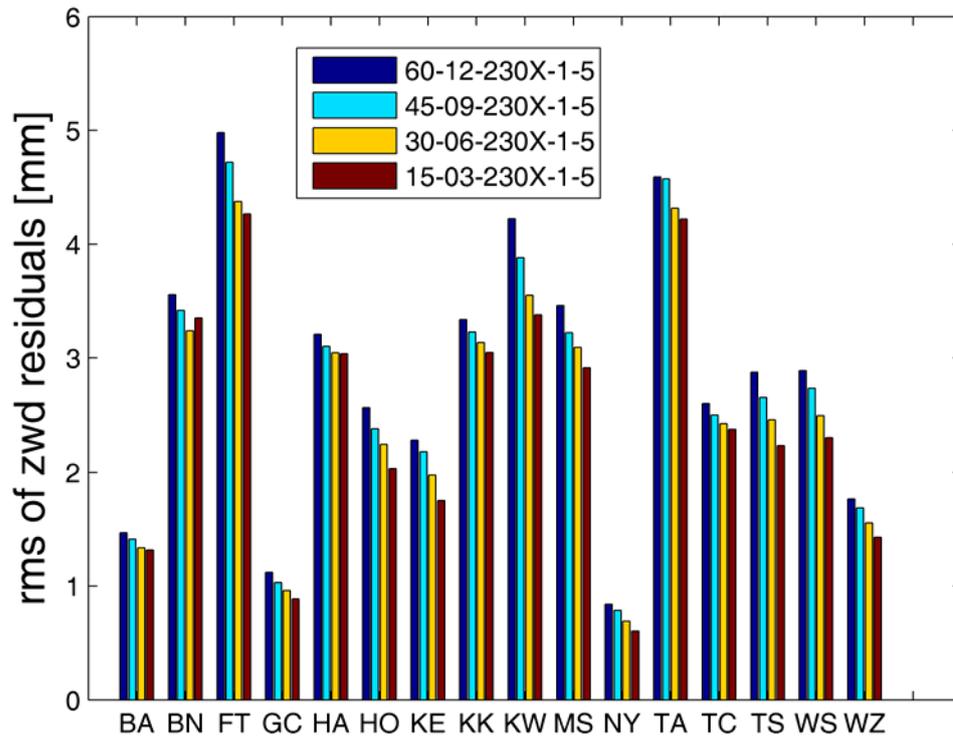


Figure 2 mean rms of zwd residuals in mm

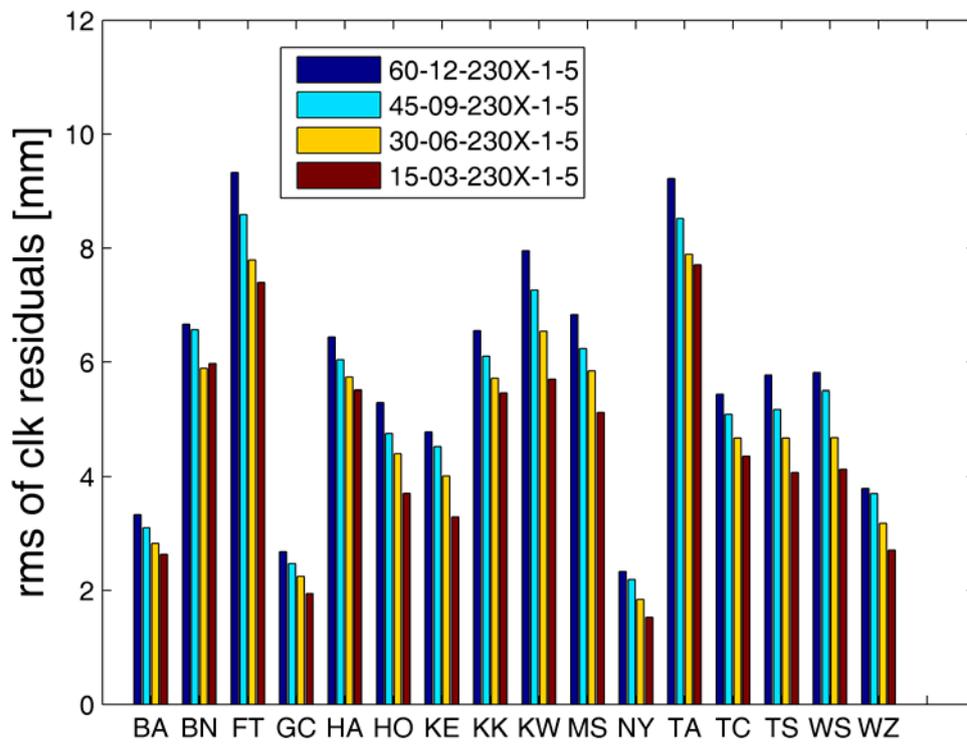


Figure 3 mean rms of clk residuals